Modeling Outputs

How can we get information from modeling results?

Data

Input → CALSIM → Output

Input → HYDROPS → Output

Input → WQRRS → Output

Modeling Database

Data Analysis
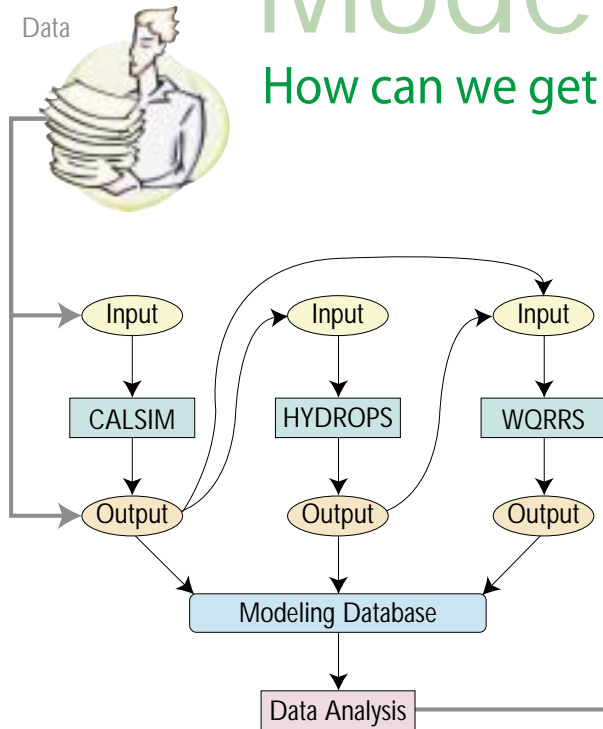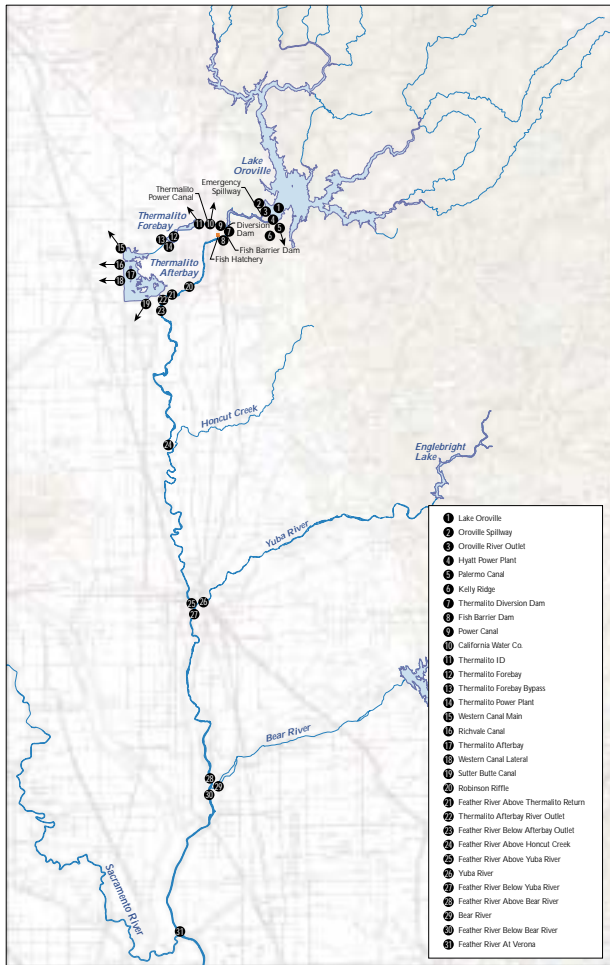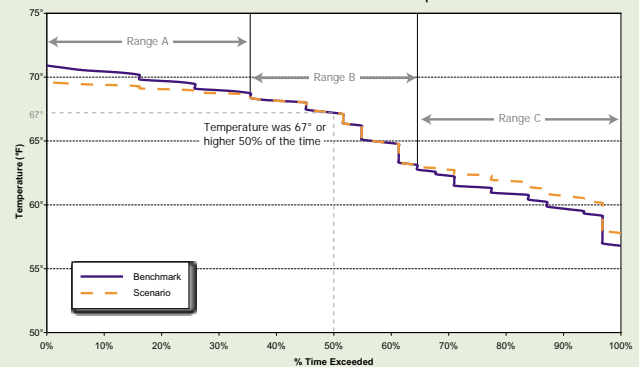
Information

Data-Information

The modeling database contains over 250 sets of monthly and daily data covering the 73-year modeling horizon. This is about 1.5 million data points for each simulation. We need to convert this data into information

Data Locations

1. Lake Oroville
2. Oroville Spillway
3. Oroville River Outlet
4. Hyatt Power Plant
5. Palermo Canal
6. Kelly Ridge
7. Thermalito Diversion Dam
8. Fish Barrier Dam
9. Power Canal
10. California Water Co.
11. Thermalito ID
12. Thermalito Forebay
13. Thermalito Forebay Bypass
14. Thermalito Power Plant
15. Western Canal Main
16. Richvale Canal
17. Thermalito Afterbay
18. Western Canal Lateral
19. Sutter Butte Canal
20. Robinson Riffle
21. Feather River Above Thermalito Return
22. Thermalito Afterbay River Outlet
23. Feather River Below Afterbay Outlet
24. Feather River Above Honcut Creek
25. Feather River Above Yuba River
26. Yuba River
27. Feather River Below Yuba River
28. Feather River Above Bear River
29. Bear River
30. Feather River Below Bear River
31. Feather River At Verona

Exceedance Curve Example

- Range A is cooler - Reduced highest temperatures
- Range B is unchanged - Did not change mid-range temperatures
- Range C is hotter - Increased coolest temperatures

Exceedance Table Example

Exceedance Summary

Index Month	10% Base	10% Scenario	25% Base	25% Scenario	50% Base	50% Scenario	75% Base	75% Scenario	90% Base	90% Scenario
Oct	278	284	269	270	253	254	222	216	118	94
Nov	243	247	234	235	220	221	192	188	103	82
Dec	227	231	217	218	205	206	179	173	95	76
Jan	168	168	156	161	122	122	39	31	12	12
Feb	193	193	187	187	157	158	66	63	37	34
Mar	223	223	217	218	203	204	108	108	68	56
Apr	289	293	279	281	263	265	226	226	101	95
May	387	393	372	376	351	354	309	312	159	127
Jun	496	501	477	482	452	455	396	399	202	162
Jul	520	525	499	504	470	476	413	416	211	169
Aug	504	513	488	492	457	461	400	402	204	163
Sep	383	389	367	370	345	349	302	307	157	126

Threshold Exceedance Example

Number Periods Exceeding Index

Index Month	100 Base	100 Scenario	200 Base	200 Scenario	300 Base	300 Scenario	400 Base	400 Scenario	500 Base	500 Scenario
Oct	66	65	58	55	1	2	0	0	0	0
Nov	66	64	52	49	0	0	0	0	0	0
Dec	64	63	44	43	0	0	0	0	0	0
Jan	37	38	0	0	0	0	0	0	0	0
Feb	46	46	1	1	0	0	0	0	0	0
Mar	59	57	36	37	0	0	0	0	0	0
Apr	66	65	56	56	2	4	0	0	0	0
May	68	66	60	60	57	57	3	6	0	0
Jun	71	68	66	61	59	59	52	54	4	7
Jul	71	69	66	61	60	60	57	57	17	21
Aug	71	68	66	61	59	59	55	56	8	11
Sep	68	66	60	60	56	56	3	6	0	0

Year Type Bar Chart Example